

Amendments to the claims:

1. (currently amended) An apparatus (10) for passing a mixture of liquids, ~~preferably mixtures of blood and medications;~~ through human and/or animal organs or extremities, comprising:

~~having~~ at least one pump device (11) for recirculating the liquids and having at least one mixing unit (14), ~~characterized in that wherein~~ at least one mixing unit (14) has at least two chamber wheels (17, 18) for metered mixing of the liquids, and wherein the at least one pump is located upstream of the at least one mixing unit.

2. (currently amended) The apparatus (10) of claim 1, ~~characterized in that wherein~~ the mixture ratio of the liquids is adjustable via the diameter ratio and/or the chamber size and/or the rotary speed of the chamber wheels (17, 18).

3. (currently amended) The apparatus (10) of claim 1 ~~or 2~~, ~~characterized in that wherein~~ the pressure and the volume flow of the liquids are adjustable.

4. (currently amended) The apparatus (10) of ~~one of claims 1-3~~ claim 1, ~~characterized in that wherein~~ the two chamber wheels (17, 18) are coupled in terms of their drive.

5. (currently amended) The apparatus (10) of claim 4, characterized in that wherein the chamber wheels (17, 18) are each supported on two independent shafts and are connected by a gear.

6. (currently amended) The apparatus (10) of claim 4, characterized in that wherein the chamber wheels (17, 18) are supported on a common shaft.

7. (currently amended) The apparatus (10) of ~~one of claims 1-46~~ claim 1, characterized in that wherein the at least one mixing unit (14) and the at least one pump device (11) are combined in a unit.

8. (currently amended) The apparatus (10) of ~~one of claims 1-7~~ claim 1, characterized in that wherein the at least one pump (11) is a centrifugal pump.

9. (currently amended) The apparatus (10) of ~~one of claims 1-8~~ claim 1, characterized in that wherein the at least one pump is pressure-regulated or flow-regulated.